

# Biohydrometallurgy

- **Biohydrometallurgy** is a method for obtaining metals from their ores by using microorganisms.
- **Interdisciplinary field** involving processes that -
  - make use of microbes (*-bio*)
  - mainly take place in aqueous environment (*-hydro*)
  - deal with metal production and treatment of metal containing materials and solutions (*-metallurgy*)
- **Bioleaching** is one of the application of **Biohydrometallurgy**.

# Biohydrometallurgy

**Axel Schippers, Wolfgang Sand, Franz  
Glombitza, Sabine Willscher**

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Biohydrometallurgy 2009 Edgardo R. Donati, M. Viera, Eduardo L. Tavani, Maria Alejandra Giaveno, Teresa L. Lavalle, Patricia A. Chiacchiarini, 2009-05-19 a meeting point between Microbial Ecology Metal Recovery Processes and Environmental Remediation Selected peer reviewed papers from the 18th IBS IBS 2009 13 17 September 2009 Bariloche Argentina

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**Biohydrometallurgy** Joseph Salley, Ronald Glen Lang McCready, Paul L. Wichlacz, 1989

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R. Norris, D. P. Kelly, 1988 Microbial Processing of Metal Sulfides Edgardo R. Donati, Wolfgang Sand, 2007-05-11 The application of microbiological methods to the extraction of metals from minerals is supported by several bioleaching and biooxidation processes operating in different sites over the world This book details the basic aspects of the process with special emphasis on recent contributions regarding the chemical and microbial aspects of the bioleaching process and the use of microorganisms in the treatment of complex ores and concentrates **Biotechnology for the Treatment of Hazardous Waste**

Daphne L. Stoner, 1993-11-24 The development of biologically based processes for the treatment of hazardous inorganic and organic wastes is a multi disciplinary effort requiring the consideration of a number of biological chemical and physical parameters as well as the effective teaming of biologists chemists engineers and regulatory agencies This new text reference bridges the disciplines in a unique way allowing an exchange of fundamental information to take place The book begins with a description of the biological transformations of inorganic and organic compounds and a review of strategies that may be used for the treatment of hazardous wastes It continues with a discussion of the physiological and engineering factors that must be considered for successful process development and concludes with a discussion of the regulations that have influenced biological waste treatment and environmental remediation *Integration of Scientific and Industrial Knowledge on Biohydrometallurgy*

Nicolas Guiliani, Cecilia Demergasso, Raquel Quatrini, Francisco Remonsellez, Carol Davis-Belmar, Gloria J. Levicán, Pilar Parada, Carlos Barahona, Rebekah Zale, 2013-10-07 Selected peer reviewed papers from the 20th International Biohydrometallurgy Symposium IBS2013 October 8 11 2013 Antofagasta Chile

**New Horizons in Biotechnology** S. Roussos, C.R. Soccol, Ashok Pandey, C. Augur, 2013-06-29 The practice of biotechnology though different in style scale and substance in globalizing science for development involves all countries Investment in biotechnology in the industrialised the developing and the least developed countries is now amongst the widely accepted avenues being used for economic development The simple utilization of kefir technology the detoxification of injurious chemical pesticides e g parathion the genetic tailoring of new crops and the production of a first of a kind of biopharmaceuticals illustrate the global scope and content of biotechnology research endeavour and effort In the developing and least developed nations and in which the 9 most populous countries are encountered problems concerning management of the environment food security conservation of human health resources and capacity building are important factors that influence the path to sustainable development Long term use of biotechnology in the agricultural food energy and health sectors is expected to yield a windfall of economic environmental and social benefits Already the prototypes of new medicines and of prescription fruit vaccines are available Gene based agriculture and medicine is increasingly being adopted and accepted Emerging trends and practices are reflected in the designing of more efficient bioprocesses and in new research in enzyme and fermentation technology in the bioconversion of agro industrial residues into bio utility products in animal healthcare and in the bioremediation and medical biotechnologies Indeed with each new day new horizons in biotechnology

beckon BIOTECHNOLOGY - Volume X Horst W. Doelle, J. Stefan Rokem, Marin Berovic, 2009-11-16 This Encyclopedia of Biotechnology is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biotechnology draws on the pure biological sciences genetics animal cell culture molecular biology microbiology biochemistry embryology cell biology and in many instances is also dependent on knowledge and methods from outside the sphere of biology chemical engineering bioprocess engineering information technology biorobotics This 15 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the field and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

**Biohydrometallurgy of Chalcopyrite** Hongbo Zhao, Congren Yang, Xian Zhang, Yisheng Zhang, Guanzhou Qiu, 2021-07-29 Bioleaching of chalcopyrite is always a challenge and research hotspot The low copper extraction and dissolution kinetics restricted the industrial application of chalcopyrite bioleaching To solve this problem the dissolution process and passivation mechanism of chalcopyrite in bioleaching should be first studied then the rate limiting steps should be analysed explicitly and finally the intensifying method can be put forward Many scholars have made efforts to investigate the dissolution mechanism of chalcopyrite in bioleaching However there is no congruence of opinion as yet Biohydrometallurgy of Chalcopyrite summarizes and discusses the reported research findings In addition this book publishes the related results found by the authors research Then the dissolution mechanism of chalcopyrite in bioleaching is interpreted Finally the process intensification techniques of chalcopyrite bioleaching are provided and discussed Hence this book provides useful reference and guidance in both laboratory research and industrial production Interprets the dissolution mechanism of chalcopyrite in bioleaching Provides feasible technologies for intensifying chalcopyrite bioleaching Overviews the current situations of chalcopyrite bioleaching Helps the readers to deeply understand the bioleaching mechanisms of chalcopyrite Provides topics for future research and potential industrial applications

*Biohydrometallurgical Recycling of Metals from Industrial Wastes* Hong Hocheng, 2017-09-11 Although many available metal recycling methods are simple and fast they are also expensive and cause environmental pollution Biohydrometallurgical processing of metals offers an alternative to overcome these issues as the use of biological means not only helps to conserve dwindling ore resources but also fulfills the need for the unambiguous need to extract metals in nonpolluting low energy and low cost way This book covers biohydrometallurgy and its application in the recovery of metals from secondary sources like wastes It aims to provide readers with a comprehensive overview of different wastes for metal recovery and biological treatment methods that are both environmentally friendly and economically viable

*Genetic Engineering and Biotechnology Monitor*, 1992 **Molecular Biology and Biotechnology of Extremophiles** R. A. Herbert, R. J. Sharp, 1992 Dokumentation biologische Materialprüfung, 1988 Biohydrometallurgy and the environment

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